1	2	3	4	5	6	7
2.	Deoghar—Sultanganj, Banks—Barahat and Banka-Bhitiah Road	151.28	312	93	15	
3.	Giridih-Koderma	102.50	371.36	125.22	20	
4.	Koderma-Ranchi	202	1033.04	335.63	50	
5.	Koderma-Tilaiya	65	460	31.85	25	
6.	Mandarhill-Rampurhat *via* Dumka GAUGE CONVERSION	130	254.07	131	17	
7.	Ranchi-Lohardaga with extension to Tori DOUBLING	111	426	195	28	
8.	Barharwa-Tinpahar	16.49	41.13	16.13	25	Year 2007-08
9.	Goelkera-Maniharpur 3rd line (Chakradhatpur-Bondamunda section)	40	283	1.72	20	

Survey for laying new rail lines

1286. SHRI DARA SINGH: Will the Minister of RAILWAYS be pleased to state:

(a) the details of the surveys conducted by the Railways for laying of new railway lines in the country during the last three years, State-wise particularly in the State of Maharashtra; and

(b) the steps taken by the Railways to commence work on the identified new lines?

THE MINISTER OF STATE IN THE MINISTRY OF RAILWAYS (SHRI R. VELU): (a) The State-wise details of new line surveys completed during the last 3 years are as under:—

SI. No	Name of the Project	State(s)	KMS	Approx. Cost (Rs. in Crore)	
1	2	3	4	5	
1.	Mantralayam Road-Kurnool	Andhra Pradesh	111	241	
2.	Machlipattnam-Repalli	Andhra Pradesh	45	259	
3.	Pondum-Rajam	Andhra Pradesh	19	53	
4.	Ongole-Donakonda	Andhra Pradesh	87	196	
5.	Jaggiyapet-Vishnupuram	Andhra Pradesh	55	156	# (Part)
6.	Bhadrachallam-Kovvur	Andhra Pradesh	151	334	
7.	NadiKudi-Sri Kalahari	Andhra Pradesh	308	711	
8.	Hyderabad-Gazwal-Sircilla-Vemulwada	Andhra Pradesh	149	308	
9.	Medak-Akkanapet	Andhra Pradesh	18	46	
10.	Manoharabad-Kothapalli	Andhra Pradesh	148	308	#
11.	Cuddapah-Bangalore *via* Madanapalli	Andhra Pradesh/Karnataka	255	656	

1	2	3	4	5	
12.	Attipattu-Putur (Incl. Periyapalayan-Tiruvallur)	Andhra Pradesh/Tamil Nadu	145	635	
13	Tuli-Tuli Town	Assam & N.E. Region	9	44	
14	Murkongselek-Pasighat	Assam & N.E. Region	30	123	
15	Bedeti-Itanagar	Assam & N.E. Region	42	490	
16	Azra-Byrnihat	Assam & N.E. Region	30	223	#
17	Bhairabi-Sairang/Aizwal	Assam & N.E. Region	52	519	
18	Dimapur-Kohima	Assam & N.E. Region	887	912	#
19	Agartala-Sabroom	Assam & N.E. Region	no	557	
20	Hathua-Deoria (Bhatni)	Bihar	85	200	#
21	Bariarpur-Mananpur	Bihar	68	292	#
22	Pirpainiti to MGR	Bihar	17	45	
23	Aurangabad-Bihta	Bihar	118	410	#
24	Motihari to Sitamarhi	Bihar	77	211	#
25	Kusheswarasthan-Darbhanga	Bihar	70	253	#
26	Jhajha-Khera-Garhi-Nawada	Bihar	82	629	
27	Bihariganj-Simribakhtiarpur	Bihar	54	139	
28	Ara-Bhabua Road	Bihar	122	380	
29	Masrakh-Rewaghat	Bihar	30	109	#
30	Chhapra-Muzaffarpur	Bihar, Uttar Pradesh	85	378	#
31	Chhitauni-Tumkhui Road	Bihar, Uttar Pradesh.	59	264	#
32	Dehri-on-Sone - Banjari	Bihar/Jharkhand	36	83	
33	Jhajha-Girdih	Bihar/Jharkhand	82	624	
34	Nawadah-Giridih	Bihar/Jharkhand	130	580	
35	Gaya to Daltonganj	Bihar/Jharkhand	135	540	
36	Araria-Galgalia	Bihar/West Bengal	101	365	#
37	Sultanganj-Kathuria	Bihar	75	331	#
38	Byepass line connecting Delhi Cantl to avoid Patel Nagar and	. Delhi	3	49	
}9	Kharaghoda-Santhalpur	Gujarat	111	199	
40	Bhavnagar-Tarapore	Gujarat	135	411	
41	Chhotaudaipur-Dhar	Gujarat/Madhya Pradesh	156	608	#
42	Dahod-Banswara	Gujarat/Rajasthan	120	321	
45	missar to sirsa	Haryana	79	24.0	
44	Phattu Kalan-Jakhal	Haryana	92	448	
45	Yamuna Nagar-Patiala	Haryana/Punjab	142	530	
46	Rewari-Bhiwadi	Haryana/Rajasthan	27	105	
47	Loharu-Bhiwani	Haryana/Rajasthan	64	100	
48	Parwanoo-Darlaghat	Himachal Pradesh	92	1290	
49	Chandigarh-Baddi	Himachal Pradesh	33	328	#
50	Banupali-Bilaspur-Beri	Himachal Pradesh	63	766	

1	2	3	4	5	
51.	Udhampur/Katra-Bhairwaha, Doda-Kishtwar	J&K	224	3860	
52.	Baramulla-Kupwara	J&K	39	359	
53.	Ranchi-Kandra	Jharkhand	93	300	
54.	Chatra-Gaya	Jharkhand	101	389	
55.	Tori-Chatra	Jharkhand	66	278	
56.	Hansdiha to Godda	Jharkhand	29	144	
57.	Rayadurg-Tumkur	Karnataka, Andhra Pradesh	212	887	
58.	Punalur to Erumeli	Kerala	63	345	
59.	Tirur-Angadipuram	Kerala	41	224	
60.	Erumeli-Punalur-Trivendrum	Kerala	138	699	
61.	Kayankulum-Kottakara	Kerala	48	276	
62.	Madurai-Kottayam	Kerala/Tamil Nadu	220	1025	
63.	Damoh-Kundalpur	Madhya Pradesh	35	58	
64.	Gotegaon-Ramtek	Madhya Pradesh/Maharashtra	275	775	
65.	Khandwa-Nardana	Madhya Pradesh/Maharashtra	225	520	
66.	Manmad-Indore via Malegaon & Dhule	Madhya Pradesh/Maharashtra	350	1001	
67.	Latur Road-Mudkhed	Maharashtra	138	359	
68.	Goregaon-Borivali	Maharashtra	7	128	
69.	Solapur-Tuljapur-Osmanabad	Maharashtra	80	189	
70.	Wardha-Yavatmal	Maharahstra	270	581	
71.	Jcypore-Malkangiri	Orissa	130	562	
72.	Bargarh-Nawapara Road	Orissa	136	416	
73.	Puri-Konark	Orissa	35	100	
74.	Extension of Rupsa-Bangriposi upto Gurumahishani	Orissa	42	211	
75.	Buramara-Chakulia	Orissa/West Bengal	50	186	
76.	Qadian-Beas	Punjab	40	142	
77.	Rama Mandi-Maur Mandi *via* Talwandi Saheb	Punjab	32	115	
78.	Ratlam-Banswara	Rajasthan	176	983	
79	Phalodi-Balotra	Rajasthan	165	291	
80.	Anupgarh-Bikaner	Rajasthan	155	274	
81.	Jaisalmer-Barmer	Rajasthan	144	263	
82.	Bilara-Bar	Rajasthan	52	139	
83.	Phalodi-Nagaur	Rajasthan	147	214	
84.	Jaisalmer-Kandla	Rajasthan/Gujarat	562	991	
85.	Bari Sadari-Nimach	Rajasthan/Madhya Pradesh	50	130	
86.	Tindivanam-Nagari	Tamil Nadu	179	417	#
87.	Rameshwaram-Dhanuskotti	Tamil Nadu	17	27	

1	2	3	4	5
88.	Tindivanam-Cuddalore	Tamil Nadu	77	157
89.	Chennai-Sriperumbadur	Tamil Nadu	38	242
90.	Chennai-Thanjavur	Tamil Nadu	314	906
91.	Tindivanam-Jolarpettai via Tiruvannamalai, Gingee	Tamil Nadu	168	406 # (Part)
92.	Jolarpetti-Hossur via Dharmapuri	Tamil Nadu	159	411
93.	Satyamangalam-Mettur	Tamil Nadu	90	326
94.	Mailaduturai-Karaikal	Tamil Nadu	47	115
95.	Chennai-Cuddalore	Tamil Nadu	71	524
96.	Erode-Satyamanglam	Tamil Nadu	69	283
97.	Erode-Palani via Dharapura	Tamil Nadu	92	289
98.	Nagapattinam-Thirucheraipundi	Tamil Nadu	33	91
99.	Cuddalore-Jolarpettai	Tamil Nadu/Pudducherry	236	563
100.	Kollengode-Trichur	Tamil Nadu/Kerala	59	301
101.	Rishikesh-Doiwala	Uttarakhand	20	100
102.	Anandnagar-Kaptanganj	Uttar Pradesh	60	145
103.	Chola-Bulandhshahar	Uttar Pradesh	16	59
104.	Golagokaran Nath-Shahjanpur	Uttar Pradesh	67	172
105.	Etah-Kasganj	Uttar Pradesh	29	132
106.	Padrauna-Kushinagar	Uttar Pradesh	28	110
107.	Nautanwa-Bhairwaha	Uttar Pradesh	15	176
108.	Amethi-Sahaganj via Sultanpur/ Qadipur	Uttar Pradesh	110	296
109.	Sambhal-Gujraula	Uttar Pradesh	43	165
110.	Nepalganj Road(India)-Nepalganj (Nepal)	Uttar Pradesh	12	149
111.	Barhaj Bazar-Faizabad	Uttar Pradesh	194	782
112.	Tanakpur-Bageshwar	Uttarakhand	155	2252
113.	Muzaffarnagar-Haridwar via Roorkee	Uttarakhand/Uttar Pradesh	51	281 #(Part)
114.	Budge Budge-Uluberia	West Bengal	25	910
115.	Chowrigacha-Kandi	West Bengal	16	50
116.	Bandel-Naihati	West Bengal	9	30
117.	Jhargram-hurulia	West Bengal	136	356
118.	Budge Budge-Namkhana-Frazerganj	West Bengal	129	321
119.	Samsi-Harishchandrapur	West Bengal	28	91
120.	Balurghat-Hili	West Bengal	30	105
121.	Canning-Sonakhali	West Bengal	17	126
122.	Amta-Bongaon	West Bengal	16	65
123.	Buniyadpur-Kaliyaganj	West Bengal	35	131

1	2	3	4	5
124.	Budge Budge-Pujali	West Bengal	11	37
125.	Mekhliganj-Haldibari extn. to Chandrabhanga	West Bengal	26	186
126.	Barsoi-Chanchal	West Bengal/Bihar	33	131
127.	Sivok-Giellikhola	West Bengal/Assam & NE Region	25	105
	TOTAL		12749	47934

# indicates works which have been taken up.

(b) Out of the above mentioned 127 completed surveys, 20 new line projects have so far been taken up. The funds have been allotted and works are in various stages of progress.

Railway accidents

1287. PROF. P.J. KURIEN: Will the Minister of RAILWAYS be pleased to state:

(a) the number of railway accidents in the last five years, year-wise;

(b) the details of steps taken to reduce such accidents;

(c) whether it is a fact that with regard to safety aspects Indian Railways is far behind to other Railways, especially of the developed countries;

(d) if so, the details thereof and the reasons therefor;

(e) whether Government proposes to introduce safety audit in Railways; and

(f) if so, the details thereof and if not, the reasons therefor?

THE MINISTER OF STATE IN THE MINISTRY OF RAILWAYS (SHRI R. VELU): (a) Year-wise number of consequential train accidents during the last five years is as under:

Year	Number of Consequential Train Accidents
2002-03	351
2003-04	325
2004-05	234
2005-06	234
2006-07	195

(b) All possible steps are undertaken on a continuing basis to prevent accidents. These measures include timely replacement of over-aged assets, adoption of suitable technologies for up-gradation and maintenance of track, rolling stock, signalling and interlocking systems, safety drives and inspections at regular intervals to monitor and educate staff for observance of safe practices and provision of appropriate gradient and surface at level crossings, warning signs and public awareness campaigns for observing safe practices while negotiating the level crossings. As a result, there has been a declining trend in the number of accidents from 351 in 2002-03 to 195 in 2006-07 as mentioned above.

(c) and (d) No, Sir. Though the definition of accident varies in different railway systems of different countries, on Indian Railways, the number of accidents per million train kilometer which is an important universally accepted safety indicator, have shown continuous reduction